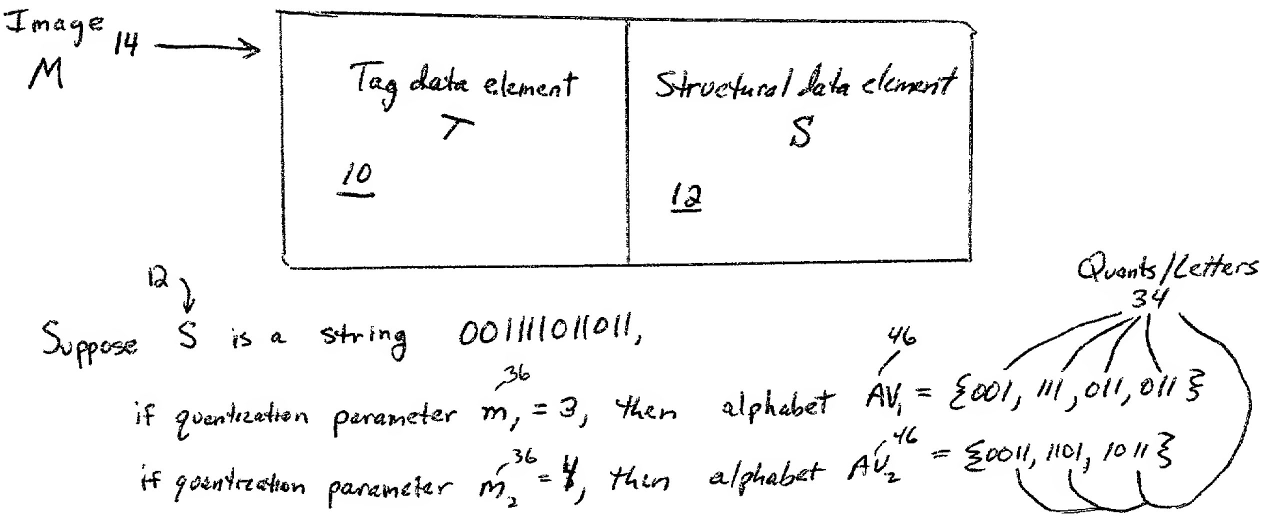


Suppose S is a string 001111011011,

if quantization parameter $m_1 = 3$, then alphabet $AV_1 = \{001, 111, 011, 011\}$

if quantization parameter $m_2 = 4$, then alphabet $AV_2 = \{0011, 1101, 1011\}$

FIGURE 1

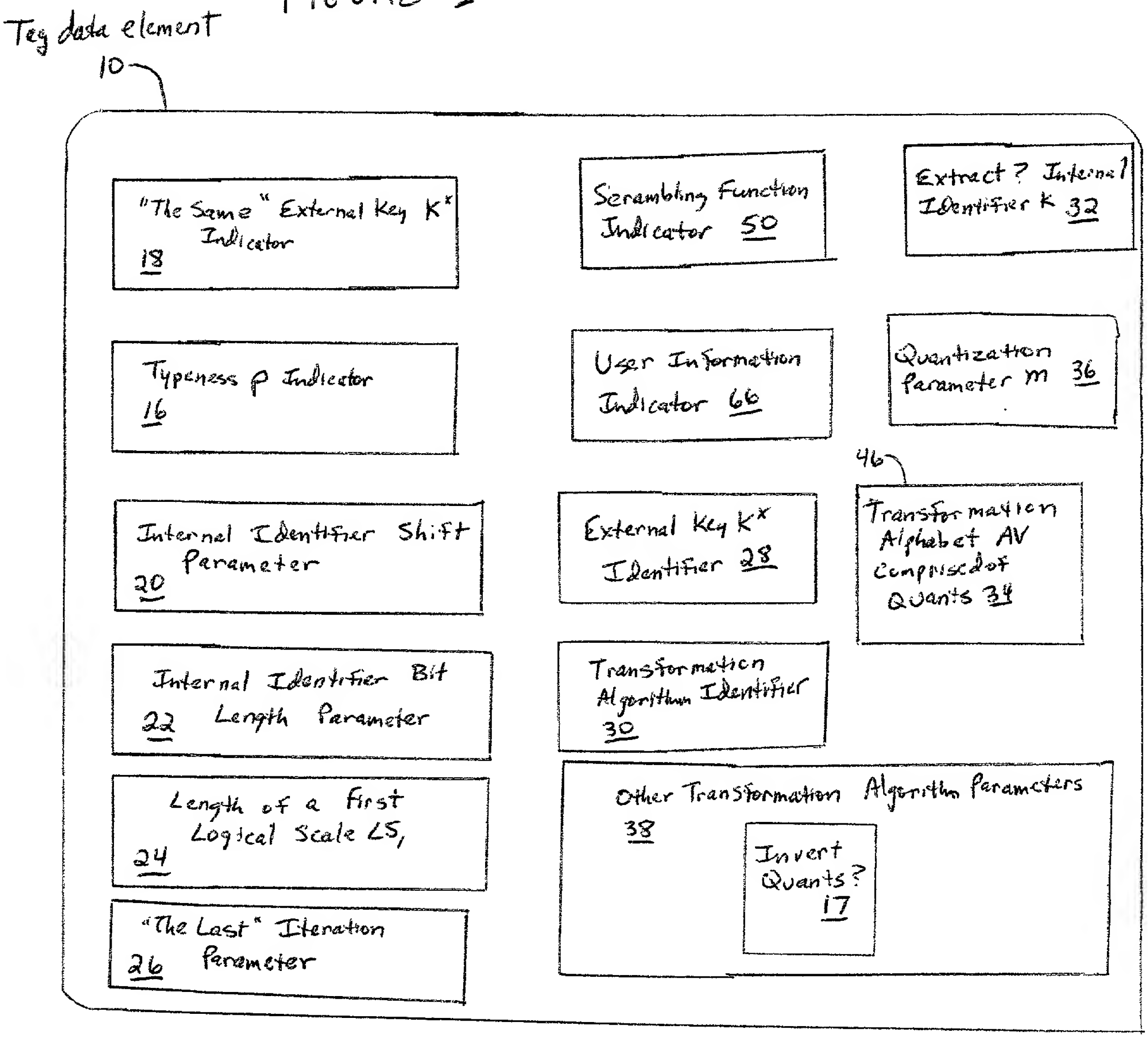


FIGURE 2

$AV'_n \in AV_n$, where n = 1,2,…, $\underbrace{P}$ 13

$AV'_n = f\{m_n, M_n\}$, where *m* is quantization parameter

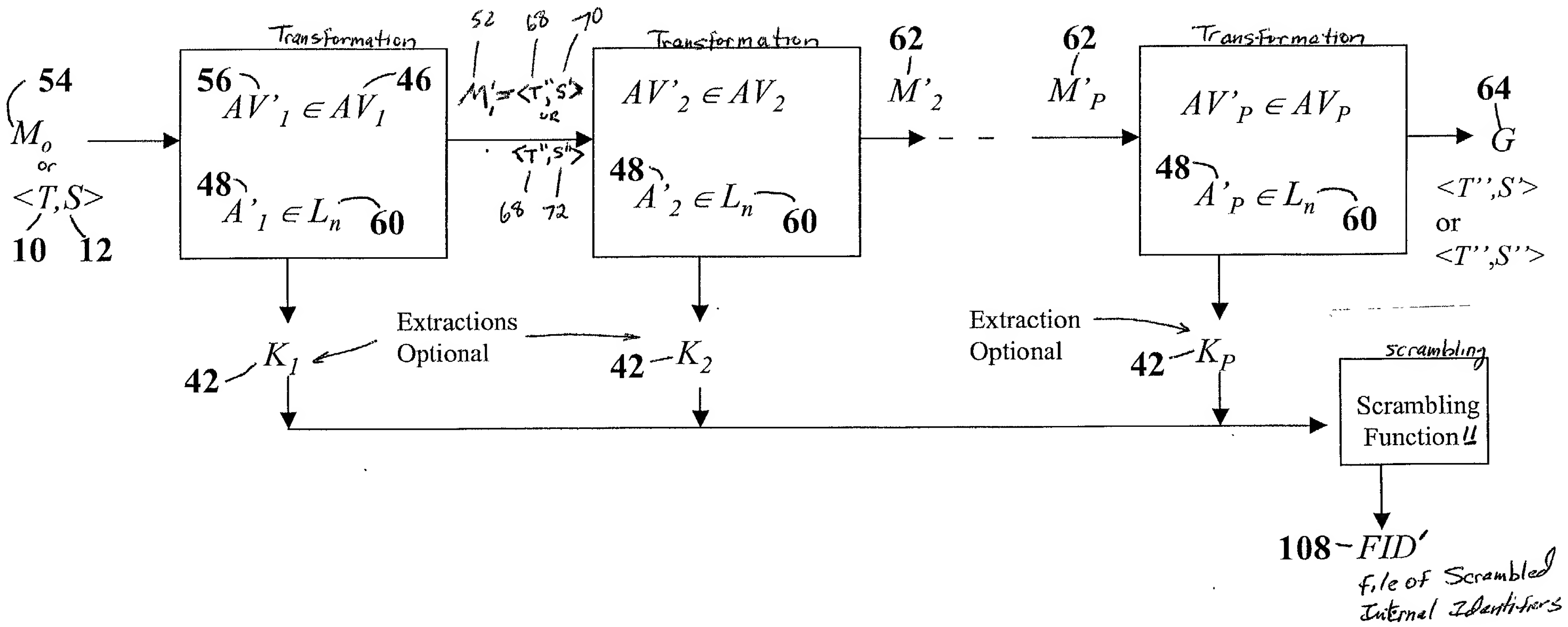
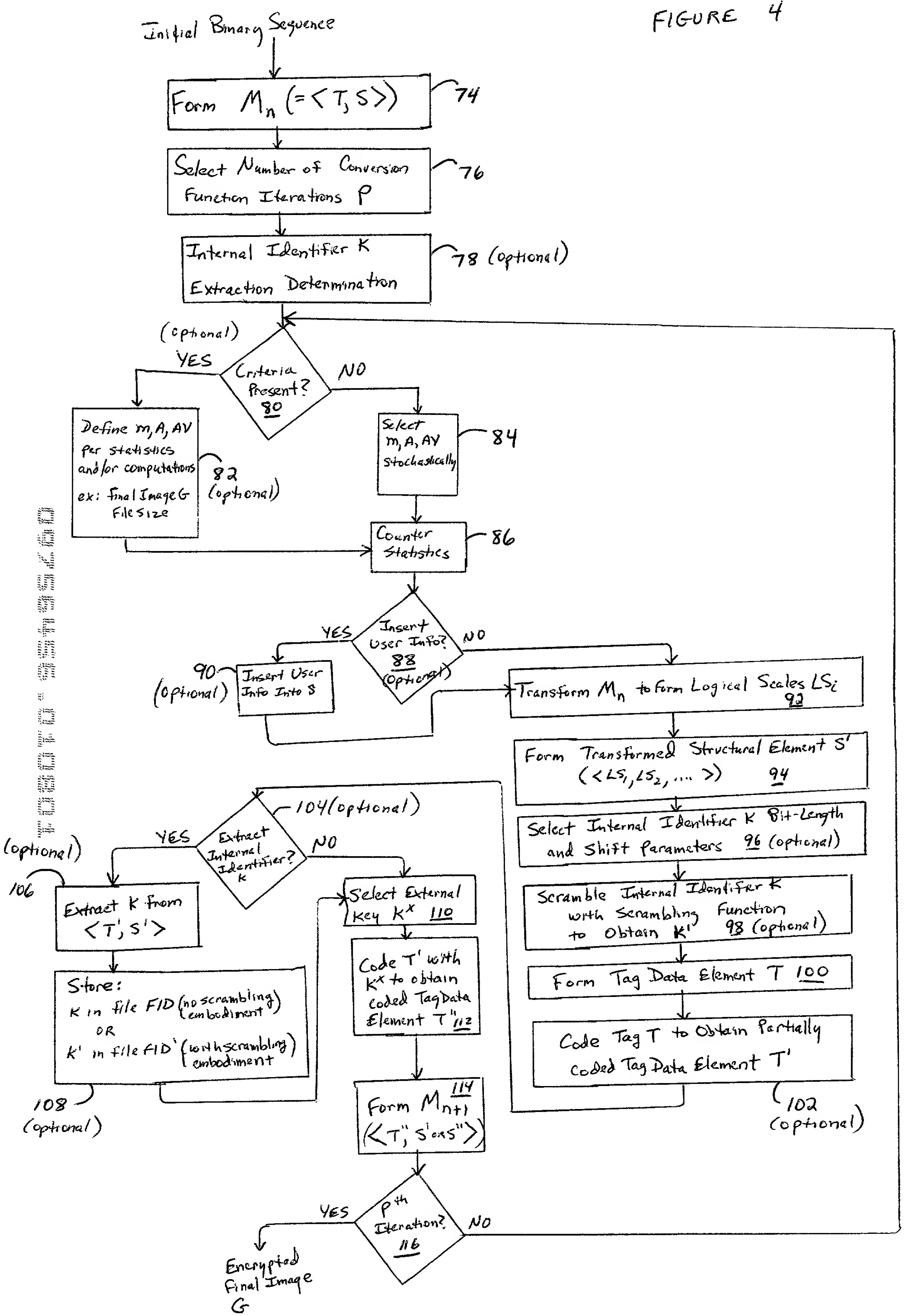


Figure 3

FIGURE 4


Initial Binary Sequence
Form M_n (=<T, S>)
74
Select Number of Conversion Function Iterations P
76
Internal Identifier K Extraction Determination
78 (optional)
(optional)
YES
Criteria Present? 80
NO
Define m, A, AV per statistics and/or computations ex: Final Image G File size
82 (optional)
Select m, A, AV Stochastically
84
Counter Statistics
86
YES
Insert User Info? 88 (optional)
NO
90 (optional)
Insert User Info Into S
Transform M_n to form Logical Scales LS_i 92
Form Transformed Structural Element S' (<LS_1, LS_2, … >) 94
Select Internal Identifier K Bit-Length and Shift Parameters 96 (optional)
Scramble Internal Identifier K with Scrambling Function to Obtain K' 98 (optional)
Form Tag Data Element T 100
Code Tag T to Obtain Partially Coded Tag Data Element T'
102 (optional)
104 (optional)
(optional)
YES
Extract Internal Identifier? K
NO
106
Extract K from <T', S'>
Store: K in file FID (no scrambling embodiment) OR K' in file FID' (with scrambling embodiment)
108 (optional)
Select External Key K^x 110
Code T' with K^x to obtain Coded Tag Data Element T'' 112
Form M_{n+1} (<T'', S' or S''>) 114
YES
P^{th} Iteration? 116
NO
Encrypted Final Image G

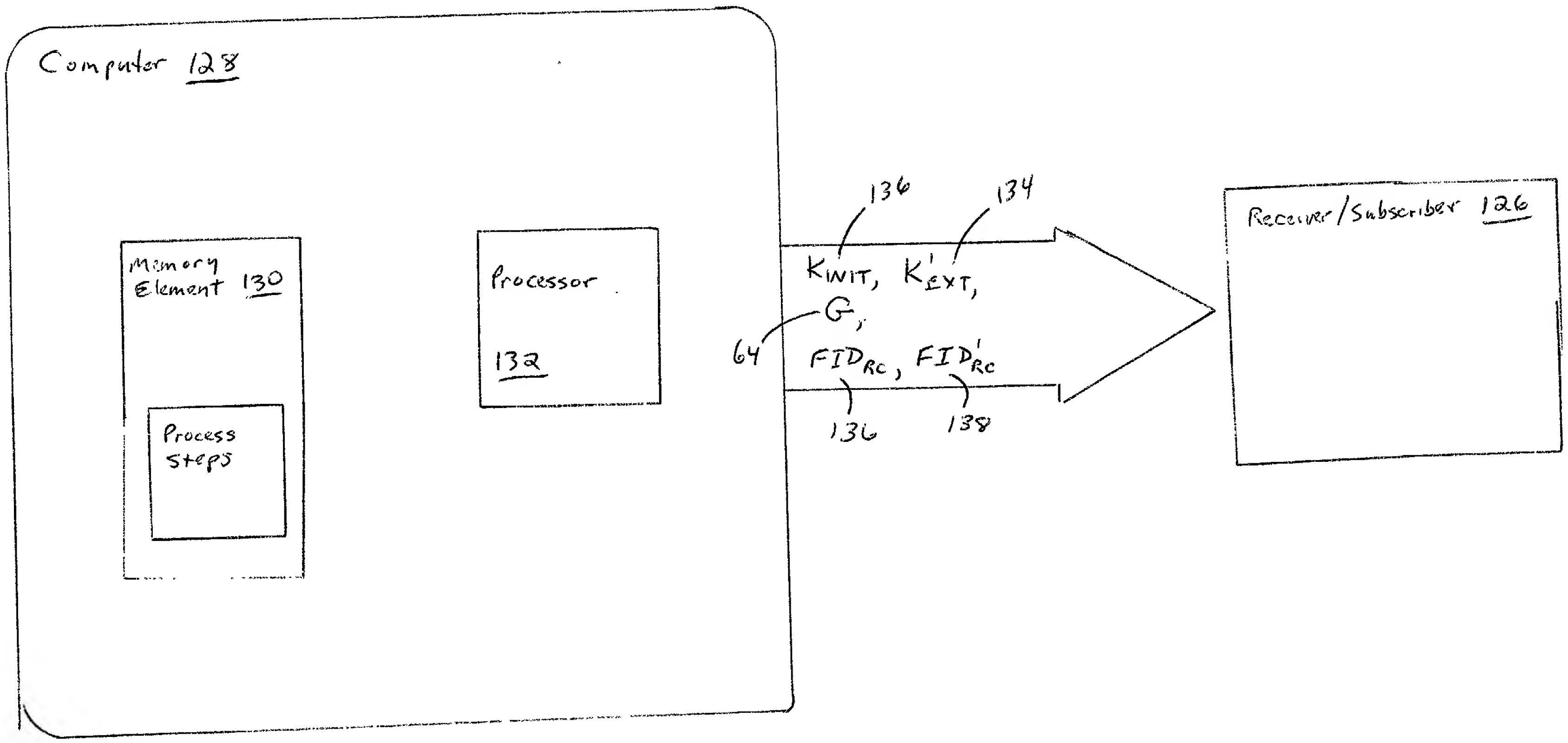

Computer 128
Memory Element 130
Process steps
Processor
132
K_{INIT}, K'_{EXT},
G,
FID_{RC}, FID'_{RC}
136
134
64
136
138
Receiver/Subscriber 126

FIGURE 5